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	Application No.	Applicant(s)		
	10/659,435	BASCERI ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Evan Pert	2826		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.				
1. This communication is responsive to the amendment and remarks filed August 24, 2005.				
2. The allowed claim(s) is/are <u>65 and 68-103</u> .				
<ol> <li>Acknowledgment is made of a claim for foreign priority una)</li></ol>	been received.  been received in Application No cuments have been received in this rece	national stage application from the		
<ul> <li>4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.</li> <li>5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted. <ul> <li>(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).</li> </ul> </li> <li>6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.</li> </ul>				
<ul> <li>Attachment(s)</li> <li>1.  Notice of References Cited (PTO-892)</li> <li>2.  Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3.  Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date</li> <li>4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendm	ė		

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## **DETAILED ACTION**

## Allowable Subject Matter

1. Claims 65 and 68-103 (renumbered as claims 1-37) are allowed.

2. The following is an examiner's statement of reasons for allowance:

Regarding claims 65 and 68-91, applicant's claimed invention can be distinguished from prior art by the limitation of "opening the grains which form HSG," (which is different than "forming HSG" without "opening the grains"), especially in the claimed combination with "forming a dielectric layer comprising aluminum oxide" and "forming a metal nitride layer over the dielectric layer."

Regarding claims 92-103, applicant's claimed invention can be distinguished from prior art by the particular combination of "forming a dielectric composite stack comprising aluminum oxide," such as by "ALD," and "forming an upper capacitor electrode of tungsten nitride."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Application/Control Number: 10/659,435 Page 3

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Evan Pert whose telephone number is 571-272-1969.

The examiner can normally be reached on M-F (7:30AM-3:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ETP

October 24, 2005

EVAN PERT PRIMARY EXAMINER